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### 1 [Toward knowledge management systems in the legal domain](#)



Deborah L. Edwards, Dirk E. Mahling

 November 1997 **Proceedings of the international ACM SIGGROUP conference on Supporting group work: the integration challenge**

Publisher: ACM Press

Full text available: pdf(1.06 MB)

 Additional Information: [full citation](#), [references](#), [index terms](#)
**Keywords:** knowledge flow, knowledge management, task analysis, workflow

### 2 [Electronic markets for learning: education brokerages on the Internet](#)



Matti Hämäläinen, Andrew B. Whinston, Svetlana Vishik

 June 1996 **Communications of the ACM**, Volume 39 Issue 6

Publisher: ACM Press

Full text available: pdf(778.05 KB)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

### 3 [Applications and architecture: SHOCK: communicating with computational messages and automatic private profiles](#)



Rajan M. Lukose, Eytan Adar, Joshua R. Tyler, Caesar Sengupta

 May 2003 **Proceedings of the 12th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(693.99 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A computationally enhanced message contains some embedded programmatic components that are interpreted and executed automatically upon receipt. Unlike ordinary text email or instant messages, they make possible a number of useful applications. In this paper, we describe a general and flexible messaging system called SHOCK that extends the functionality of prior computational email systems by allowing XML-encoded SHOCK messages to interact with an automatically created profile of a user. These pr ...

**Keywords:** collaborative systems, networking and distributed web applications, privacy and preferences

4 C-TODOS: an automatic tool for office system conceptual design



B. Pernici, F. Barbic, R. Maiocchi, M. G. Fugini, J. R. Rames, C. Rolland

October 1989 **ACM Transactions on Information Systems (TOIS)**, Volume 7 Issue 4

**Publisher:** ACM Press

Full text available: pdf(2.88 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Designers of office information systems, which share various features with information systems and software development, need to carefully consider special issues such as document and communication flows, user roles, user interfaces, and available technology. The ESPRIT Project, Automatic Tools for Designing Office Information Systems (TODOS), proposes an integrated environment for office design with tools for requirements collection and analysis, conceptual design, rapid prototy ...

5 Strategic directions in electronic commerce and digital libraries: towards a digital agora



Nabil Adam, Yelena Yesha

December 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 4

**Publisher:** ACM Press

Full text available: pdf(244.34 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 Protofoil: storing and finding the information worker's paper documents in an electronic file cabinet



Ramana Rao, Stuart K. Card, Walter Johnson, Leigh Klotz, Randall H. Trigg

April 1994 **Proceedings of the SIGCHI conference on Human factors in computing systems: celebrating interdependence**

**Publisher:** ACM Press

Full text available: pdf(1.38 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** ad hoc information work, document imaging, filing of paper documents, information retrieval, paper user interface

7 XML: not a silver bullet, but a great pipe wrench



Tommie Usdin, Tony Graham

September 1998 **StandardView**, Volume 6 Issue 3

**Publisher:** ACM Press

Full text available: pdf(86.79 KB)

Additional Information: [full citation](#), [citations](#), [index terms](#), [review](#)

8 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries



Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp

April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2

**Publisher:** ACM Press

Full text available: pdf(316.85 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article,

we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, and Societies (5S), which allow us to define digital libraries rigorously and usefully. Streams are sequences of arbitrary items used to describe both static and dynamic (e.g., video) content. Structures can be viewed as labeled directed gra ...

**Keywords:** applications., definitions, foundations, taxonomy

9 Hypertext through time: Saving private hypertext: requirements and pragmatic dimensions for preservation



Catherine C. Marshall, Gene Golovchinsky

August 2004 **Proceedings of the fifteenth ACM conference on Hypertext and hypermedia HYPERTEXT '04**

**Publisher:** ACM Press

Full text available: pdf(326.91 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The preservation of literary hypertexts presents significant challenges if we are to ensure continued access to them as the underlying technology changes. Not only does such an effort involve standard digital preservation problems of representing and refreshing metadata, any constituent media types, and structure; hypertext preservation poses additional dimensions that arise from the work's on-screen appearance, its interactive behavior, and the ways a reader's interaction with the work is recor ...

**Keywords:** archiving, digital preservation, hypertext

10 Atomicity in electronic commerce



J. D. Tygar

May 1996 **Proceedings of the fifteenth annual ACM symposium on Principles of distributed computing**

**Publisher:** ACM Press

Full text available: pdf(1.74 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 Efficiency of data structures for detecting overlaps in digital documents



Krisztián Monostori, Arkady Zaslavsky, Heinz Schmidt

January 2001 **Australian Computer Science Communications , Proceedings of the 24th Australasian conference on Computer science ACSC '01**, Volume 23 Issue 1

**Publisher:** IEEE Computer Society , IEEE Computer Society Press

Full text available: pdf(800.51 KB) Additional Information: [full citation](#), [abstract](#), [references](#)  
 [Publisher Site](#)

This paper analyses the efficiency of different data structures for detecting overlap in digital documents. Most existing approaches use some hash function to reduce the space requirements for their indices of chunks. Since a hash function can produce the same value for different chunks, false matches are possible. In this paper we propose an algorithm that can be used for eliminating those false matches. This algorithm uses a suffix tree structure, which is space consuming. We define a modified ...

12 HyperNews: a MEDIA application for the commercialization of an electronic newspaper



Jean-Henry Morin, Dimitri Konstantas

February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing**

**Publisher:** ACM Press

Full text available: pdf(2.74 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** agents, copyright protection, electronic publishing

13 Business-to-business interactions: issues and enabling technologies

B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid

May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases,**

Volume 12 Issue 1

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  [pdf\(558.34 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business standard is an illustration of such an early adoption of the advances in computer networking. The ubiquity and the affordability of the Web has made it possible for the masses of businesses to automate their B2B interactions. However, several issues ...

**Keywords:** B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

14 Office Information Systems and Computer Science



Clarence A. Ellis, Gary J. Nutt

March 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 1

**Publisher:** ACM Press

Full text available:  [pdf\(2.87 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

15 Frontmatter (TOC, Letters, Election results, Software Reliability Resources!,



Computing Curricula 2004 and the Software Engineering Volume SE2004, Software

Reuse Research, ICSE 2005 Forward)

July 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 4

**Publisher:** ACM Press


Full text available:  [pdf\(6.19 MB\)](#) Additional Information: [full citation](#), [index terms](#)

16 B2B contract implementation using windows DNS

Ning He, Zoran Milosevic

January 2001 **Australian Computer Science Communications , Proceedings of the workshop on Information technology for virtual enterprises ITVE '01 , Proceedings of the workshop on Information technology for virtual enterprises ITVE '01**, Volume 23 Issue 6

**Publisher:** IEEE Computer Society , IEEE Computer Society , IEEE Computer Society Press

Full text available:  [pdf\(863.94 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)



[Publisher Site](#)

This paper describes our implementation of a support infrastructure for electronic contracting --- an important ingredient of Business-to-Business (B2B) e-commerce. The paper first explains the main benefits of the new generation of Microsoft technologies - Windows Distributed interNet Applications Architecture (DNA) and BizTalk. This is followed by a detailed description of how we take advantage of the XML tools provided by these technologies - to implement our enterprise model of contracts. We ...

**Keywords:** BizTalk, XML-message, business contract

17 Electronic information security documentation

Peggy Fung, Lam-for Kwok, Dennis Longley

January 2003 **Proceedings of the Australasian information security workshop  
conference on ACSW frontiers 2003 - Volume 21 ACSW Frontiers '03**

**Publisher:** Australian Computer Society, Inc.

Full text available:  pdf(184.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Effective security management depends upon good risk management, which is itself based upon a reliable risk assessment, involving data collection of all the facets influencing system risk. Such data collection is often an extremely onerous task, particularly if a substantial proportion of the required information is not adequately documented. Hence comprehensive, updated information security documentation is a keystone of good information security management. Whilst the recently emerging informa ...

**Keywords:** information security documentation, information security management, information security standards, risk analysis

18 Workshop papers: Analysis of transaction problems using the problem frames  
approach



Vasantha Banagala

May 2006 **Proceedings of the 2006 international workshop on Advances and  
applications of problem frames IWAAPF '06**

**Publisher:** ACM Press

Full text available:  pdf(250.46 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A large number of analysis methods are used to analyse and document software problems. Among these, Michael Jackson's problem frames is an approach to identifying and describing recurring software problems. Data and business transactions are a recurrent software problem pattern in business and commerce systems. This paper demonstrates that problem frames can effectively capture and describe transactional problems. An extended version of the workpiece frame is proposed for this purpose. We found ...

**Keywords:** analysis, business transactions, context diagram, data transactions, problem frames, transactions, workflows, workpiece problem

19 Knowledge sharing, quality, and intermediation



Claire Vishik, Andrew B. Whinston

March 1999 **ACM SIGSOFT Software Engineering Notes , Proceedings of the  
international joint conference on Work activities coordination and  
collaboration WACC '99**, Volume 24 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(1.33 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Informal publishing flourished in the World Wide Web environment, where every user with a sufficient level of access can become a publisher. Although it appears that in such an environment intermediation in the distribution and sharing of information becomes unnecessary, the uneven quality of information and resulting quality uncertainty of information users, together with the increased search efforts, represent a sufficient reason for information and knowledge intermediaries to preserve and eve ...

**Keywords:** Internet, World Wide Web, economics of information, information exchange, intermediation, knowledge management

20 Document management: Accommodating paper in document databases



Majed AbuSafiya, Subhasish Mazumdar

October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**

**Publisher:** ACM Press

Full text available: pdf(234.77 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Although the paperless office has been imminent for decades, documents in paper form continue to be used extensively in almost all organizations. Present-day information systems are designed on the premise that any paper document in use will be either converted into electronic form or merely printed from electronic file(s) accessible to the system. Yet, paper is the medium of choice in many situations, mainly owing to its portability and usability, and the medium of necessity in others, espec ...

**Keywords:** RFID, document databases, document management, enterprise document model, paper documents, paper manifestation

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